

ENTER (DIS), GRA, NOD, BON OR ?:end  
L1 STRUCTURE CREATED

=> s l1  
SAMPLE SEARCH INITIATED 17:21:57 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 14997 TO ITERATE

6.7% PROCESSED 1000 ITERATIONS 2 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

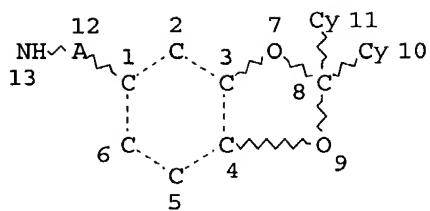
FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 292609 TO 307271  
PROJECTED ANSWERS: 271 TO 927

L2 2 SEA SSS SAM L1

=> s l1 ful  
FULL SEARCH INITIATED 17:22:01 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 303790 TO ITERATE

100.0% PROCESSED 303790 ITERATIONS 1126 ANSWERS  
SEARCH TIME: 00.00.06

L3 1126 SEA SSS FUL L1



ENTER (DIS), GRA, NOD, BON OR ?:end  
L4 STRUCTURE CREATED

=> search l4  
ENTER TYPE OF SEARCH (SSS), CSS, FAMILY, OR EXACT:sss  
ENTER SCOPE OF SEARCH (SAMPLE), FULL, RANGE, OR SUBSET:subset  
ENTER SUBSET L# OR (END):l3  
ENTER SUBSET SEARCH SCOPE - SAMPLE, FULL, RANGE, OR (END):ful  
FULL SUBSET SEARCH INITIATED 17:23:05 FILE 'REGISTRY'  
FULL SUBSET SCREEN SEARCH COMPLETED - 1126 TO ITERATE

100.0% PROCESSED 1126 ITERATIONS

55 ANSWERS

(FILE 'HOME' ENTERED AT 17:21:03 ON 28 JUL 2004)

FILE 'REGISTRY' ENTERED AT 17:21:08 ON 28 JUL 2004

L1 STRUC  
L2 2 S L1  
L3 1126 S L1 FUL  
L4 STRUC  
L5 55 SEARCH L4 SSS SUB=L3 FUL

FILE 'CAPLUS' ENTERED AT 17:23:08 ON 28 JUL 2004

L6 21 S L5

FILE 'REGISTRY' ENTERED AT 17:24:37 ON 28 JUL 2004

L7 1 S 115685-07-9

FILE 'CAPLUS' ENTERED AT 17:24:45 ON 28 JUL 2004

L8 3 S L7  
L9 19 S L6 AND P/DT  
L10 18 S L9 AND PY<2002

=> s l9 not l10

L11 1 L9 NOT L10

=> d bib abs

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:120841 CAPLUS

DN 140:163856

TI Preparation of benzodioxoles as CB1 receptor modulators for potential  
therapeutic use against obesity and other disorders

IN Alanine, Alexander; Beleicher, Konrad; Guba, Wolfgang; Haap, Wolfgang;  
Kuber, Dagmar; Luebbers, Thomas; Plancher, Jean-Marc; Rogers-Evans, Mark;  
Schneider, Gisbert; Zuegge, Jochen; Roche, Olivier

PA F.Hoffmann-La Roche AG, Switz.

SO PCT Int. Appl., 248 pp.

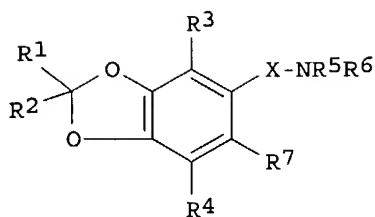
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004013120	A1	20040212	WO 2003-EP7890	20030718
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2004142922	A1	20040722	US 2003-626681	20030724
PRAI	EP 2002-16831	A	20020729		
OS	MARPAT 140:163856				
GI					



I

AB The present invention relates to benzodioxoles (shown as I; variables defined below; e.g. 1-[(2,2-diphenylbenzo[1,3]dioxol-5-yl)sulfonyl]piperidine) and pharmaceutically acceptable salts thereof. The compds. are useful for the treatment and/or prophylaxis of diseases (e.g. obesity (no data)) that are associated with the modulation of CB1 receptors. Cannabinoid CB1 antagonistic activity (IC50) of 12 examples of I is tabulated, e.g. <2  $\mu$ M for 1-(2,4-dichlorophenyl)-4-(2,2-diphenylbenzo[1,3]dioxole-5-sulfonyl)piperazine. For I: R1 and R2 = unsubstituted Ph, or Ph which is mono, di- or trisubstituted, independently, by hydroxy, lower alkyl, lower alkoxy, perfluoro-lower alkyl, perfluoro-lower alkoxy, alkanoyl, cyano, nitro or halogen; or R1 and R2 together with the C atom to which they are attached form a 10',11'-dihydro-2,5'-(5H)dibenzo[a,d]cycloheptene residue. R3 and R4 = H, halogen, hydroxy, lower alkyl, lower alkoxy, perfluoro-lower alkyl, alkanoyl or cyano; R5 is H, lower alkyl, lower alkylsulfonyl, cycloalkyl lower alkyl or hydroxy-lower alkyl. R6 is Y-R8, lower alkyl, lower alkoxy, hydroxy-lower alkyl, lower alkoxy-lower alkyl, lower alkylaminocarbonyl-lower alkyl, heterocyclyl, cycloalkyl, Ph or Ph lower alkyl; or R6 is H when X is -C(O)- or -SO2-; or R5 and R6 together with the N atom to which they are attached form a 4-7-membered monocyclic or a 8-, 9-, 10-, or 12-membered bicyclic, (un)saturated heterocyclic ring which may optionally contain one or two further heteroatoms = O, N and S, said heterocyclic ring being optionally mono, di- or trisubstituted, independently, by lower alkyl, lower alkoxy, carbonyl, hydroxy lower alkyl, lower alkoxy-lower alkyl, di-lower alkylcarbamoyl, carbamoyl, lower alkylcarbamoyl amino, oxo, dioxo, alkanoyl, amino lower alkyl, hydroxy, lower alkoxy, halogen, perfluoro-lower alkyl, cyano, heteroaryl, or by Ph or Ph lower alkyl. R7 is H, halogen, lower alkyl or cyano; R8 is Ph, cycloalkyl, heterocyclyl or heteroaryl; X is a single bond, -CH2-, -C(O)-, -SO2- or -SO2NH-; Y is -CH2-, -C(O)-, -NH- or -SO2-; addnl. details are given in the claims. Methods of preparation are claimed and >250 example preps. are included. For example, 1-[(2,2-diphenylbenzo[1,3]dioxol-5-yl)sulfonyl]piperidine was prepared in 52% yield from 2,2-diphenylbenzo[1,3]dioxole-5-sulfonyl chloride and piperidine in CH2Cl2 in the presence of Et3Pr2N. In another example, 1-[[2-(4-chlorophenyl)-2-(p-tolyl)benzo[1,3]dioxol-5-yl)sulfonyl]-4-(4-fluorophenyl)-1,2,3,6-tetrahydropyridine was prepared by cyclization of 4-chlorophenyl-4-methylphenyldichloromethane with 4-[[4-(4-fluorophenyl)-3,6-dihydro-2H-pyridin-1-yl)sulfonyl]benzene-1,2-diol.

d bib hitstr 1-18 110

L10 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1996:431401 CAPLUS

DN 125:86316

TI Preparation of gallic acid-derivative endothelin antagonists

IN Fortin, Michel; Haesslein, Jean-Luc

PA Roussel-UCLAF, Fr.

SO PCT Int. Appl., 139 pp.

CODEN: PIXXD2

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9608483	A1	19960321	WO 1995-FR1185	19950915 <--
	W: JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	FR 2724654	A1	19960322	FR 1994-11063	19940916 <--
	FR 2724654	B1	19971212		
PRAI	FR 1994-11063		19940916		

OS MARPAT 125:86316

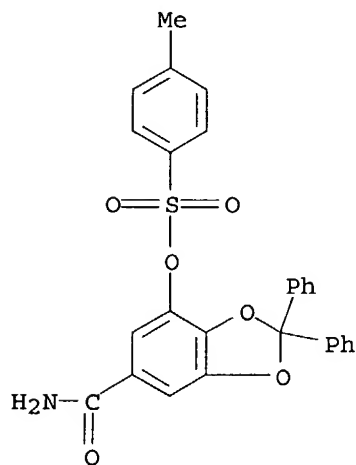
IT 178679-26-0P 178679-27-1P 178679-38-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of gallic acid-derivative endothelin antagonists)

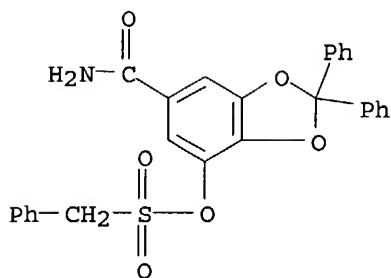
RN 178679-26-0 CAPLUS

CN 1,3-Benzodioxole-5-carboxamide, 7-[[ (4-methylphenyl)sulfonyl]oxy]-2,2-diphenyl- (9CI) (CA INDEX NAME)

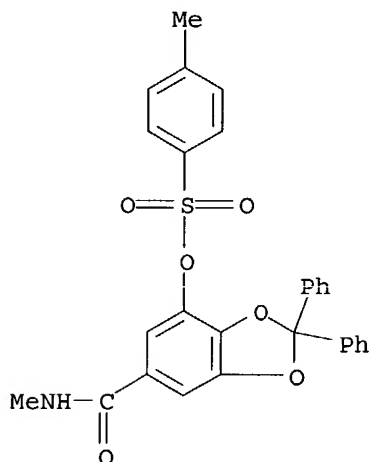


RN 178679-27-1 CAPLUS

CN Benzenemethanesulfonic acid, 6-(aminocarbonyl)-2,2-diphenyl-1,3-benzodioxol-4-yl ester (9CI) (CA INDEX NAME)



RN 178679-38-4 CAPLUS  
 CN 1,3-Benzodioxole-5-carboxamide, N-methyl-7-[[[4-methylphenyl]sulfonyl]oxy]-2,2-diphenyl- (9CI) (CA INDEX NAME)

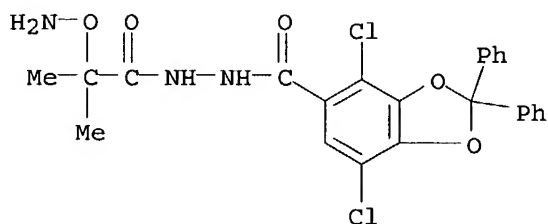


L10 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1993:603234 CAPLUS  
 DN 119:203234  
 TI Preparation of (heterocyclylthio)desacetyloxycephalosporinates as antibiotics  
 IN Angehrn, Peter; Furlenmeier, Andre; Hebeisen, Paul; Hofheinz, Werner; Link, Helmut  
 PA Hoffmann-La Roche, F., AG, Switz.  
 SO Eur. Pat. Appl., 70 pp.  
 CODEN: EPXXDW  
 DT **Patent**  
 LA German

FAN.CNT 1

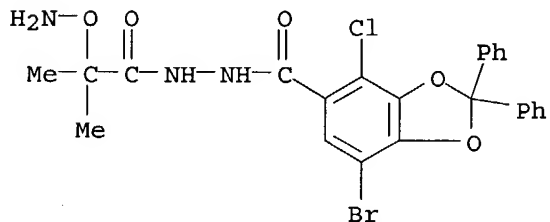
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PI	EP 544166	A2	19930602	EP 1992-119508	19921114 <--
	EP 544166	A3	19931103		
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	ZA 9208961	A	19930526	ZA 1992-8961	19921119 <--
	CA 2083345	AA	19930527	CA 1992-2083345	19921119 <--
	AU 9228566	A1	19930527	AU 1992-28566	19921120 <--
	AU 659513	B2	19950518		
	US 5438052	A	19950801	US 1992-979519	19921120 <--
	HU 62903	A2	19930628	HU 1992-3665	19921123 <--
	NO 9204554	A	19930527	NO 1992-4554	19921125 <--
	BR 9204541	A	19930601	BR 1992-4541	19921125 <--
	CN 1072684	A	19930602	CN 1992-113684	19921125 <--

JP 05255344 A2 19931005 JP 1992-337816 19921126 <--  
 JP 07088390 B4 19950927  
 PRAI CH 1991-3463 19911126  
 CH 1991-3464 19911126  
 CH 1992-2787 19920904  
 OS MARPAT 119:203234  
 IT 150168-48-2P 150168-49-3P 150190-93-5P  
 150190-94-6P 150191-85-8P 150191-86-9P  
 150191-88-1P 150191-89-2P 150191-92-7P  
 150191-93-8P 150192-20-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and reaction of, in preparation of antibiotic)  
 RN 150168-48-2 CAPLUS  
 CN 1,3-Benzodioxole-5-carboxylic acid, 4,7-dichloro-2,2-diphenyl-,  
 2-[2-(aminooxy)-2-methyl-1-oxopropyl]hydrazide, monohydrochloride (9CI)  
 (CA INDEX NAME)



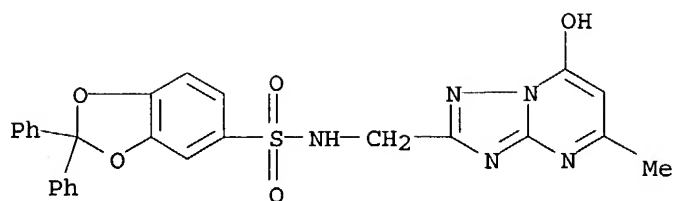
● HCl

RN 150168-49-3 CAPLUS  
 CN 1,3-Benzodioxole-5-carboxylic acid, 7-bromo-4-chloro-2,2-diphenyl-,  
 2-[2-(aminooxy)-2-methyl-1-oxopropyl]hydrazide, monohydrochloride (9CI)  
 (CA INDEX NAME)



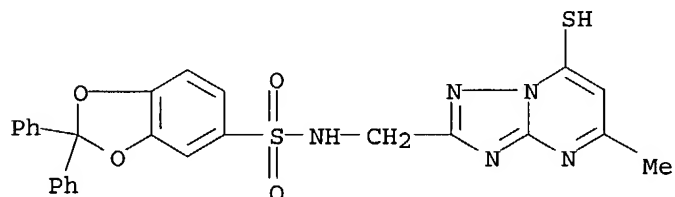
● HCl

RN 150190-93-5 CAPLUS  
 CN 1,3-Benzodioxole-5-sulfonamide, N-[(7-hydroxy-5-methyl[1,2,4]triazolo[1,5-  
 a]pyrimidin-2-yl)methyl]-2,2-diphenyl- (9CI) (CA INDEX NAME)



RN 150190-94-6 CAPLUS

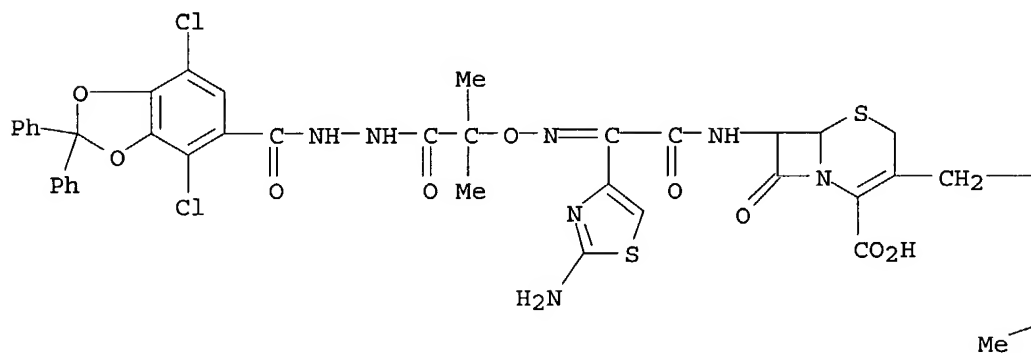
CN 1,3-Benzodioxole-5-sulfonamide, N-[(7-mercapto-5-methyl[1,2,4]triazolo[1,5-a]pyrimidin-2-yl)methyl]-2,2-diphenyl- (9CI) (CA INDEX NAME)



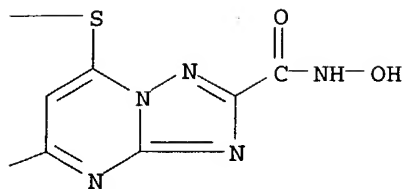
RN 150191-85-8 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[[(2-amino-4-thiazolyl)[[2-[2-[(4,7-dichloro-2,2-diphenyl-1,3-benzodioxol-5-yl)carbonyl]hydrazino]-1,1-dimethyl-2-oxoethoxy]imino]acetyl]amino]-3-[[[2-[(hydroxyamino)carbonyl]-5-methyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]thio]methyl]-8-oxo-, [6R-[6 $\alpha$ ,7 $\beta$ (Z)]]- (9CI) (CA INDEX NAME)

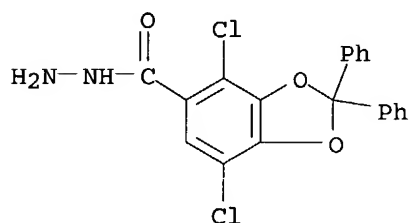
PAGE 1-A



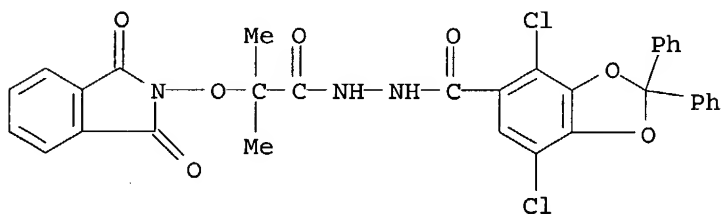




RN 150191-86-9 CAPLUS

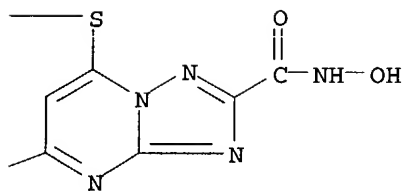
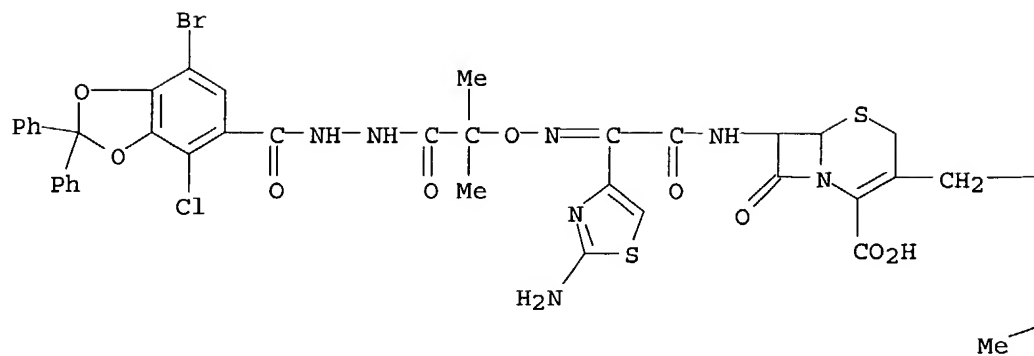
CN 1,3-Benzodioxole-5-carboxylic acid, 4,7-dichloro-2,2-diphenyl-, hydrazide  
(9CI) (CA INDEX NAME)

RN 150191-88-1 CAPLUS

CN 1,3-Benzodioxole-5-carboxylic acid, 4,7-dichloro-2,2-diphenyl-,  
2-[2-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)oxy]-2-methyl-1-oxopropyl]hydrazide (9CI) (CA INDEX NAME)

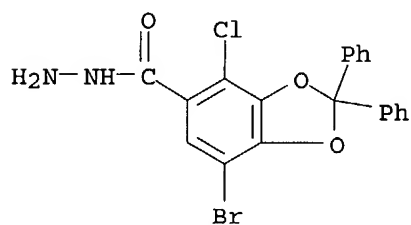
RN 150191-89-2 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,  
7-[[[(2-amino-4-thiazolyl)[[2-[2-[(7-bromo-4-chloro-2,2-diphenyl-1,3-benzodioxol-5-yl)carbonyl]hydrazino]-1,1-dimethyl-2-oxoethoxy]imino]acetyl]amino]-3-[[[2-[(hydroxyamino)carbonyl]-5-methyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]thio]methyl]-8-oxo-,  
[6R-[6α,7β(Z)]]- (9CI) (CA INDEX NAME)



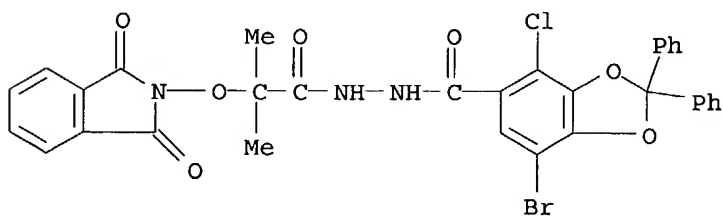
RN 150191-92-7 CAPLUS

CN 1,3-Benzodioxole-5-carboxylic acid, 7-bromo-4-chloro-2,2-diphenyl-, hydrazide (9CI) (CA INDEX NAME)

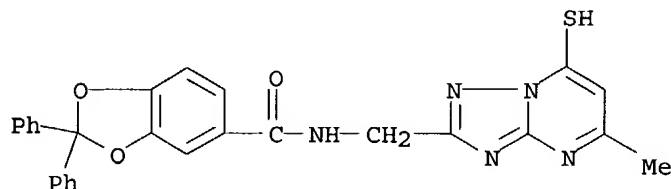


RN 150191-93-8 CAPLUS

CN 1,3-Benzodioxole-5-carboxylic acid, 7-bromo-4-chloro-2,2-diphenyl-, 2-[2-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)oxy]-2-methyl-1-oxopropyl]hydrazide (9CI) (CA INDEX NAME)

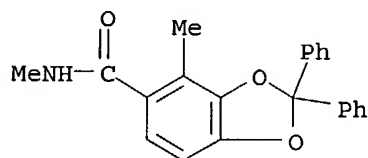


RN 150192-20-4 CAPLUS  
 CN 1,3-Benzodioxole-5-carboxamide, N-[(7-mercapto-5-methyl[1,2,4]triazolo[1,5-a]pyrimidin-2-yl)methyl]-2,2-diphenyl- (9CI) (CA INDEX NAME)



L10 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1993:517285 CAPLUS  
 DN 119:117285  
 TI Preparation of benzoxathiazabicyclododecines as novel DNA gyrase inhibitors  
 IN Arisawa, Mikio; Goetschi, Erwin; Kamiyama, Tsutomu; Masciadri, Raffaello; Shimada, Hisao; Watanabe, Junko; Hebeisen, Paul; Link, Helmut  
 PA Hoffmann-La Roche, F., und Co. A.-G., Switz.  
 SO PCT Int. Appl., 164 pp.  
 CODEN: PIXXD2  
 DT **Patent**  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9218490	A1	19921029	WO 1992-EP809	19920409 <--
	W: JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
	EP 535192	A1	19930407	EP 1992-908147	19920409 <--
	EP 535192	B1	19960619		
	R: AT, BE, CH, DE, DK, FR, GB, IT, LI, NL				
	JP 05508167	T2	19931118	JP 1992-507648	19920409 <--
	AT 139532	E	19960715	AT 1992-908147	19920409 <--
	US 5294609	A	19940315	US 1992-952537	19921209 <--
	US 5399741	A	19950321	US 1994-177483	19940106 <--
	US 5486466	A	19960123	US 1994-339442	19941114 <--
PRAI	EP 1991-106105		19910417		
	WO 1992-EP809		19920409		
	US 1992-952537		19921209		
	US 1994-177483		19940106		
OS	MARPAT 119:117285				
IT	<b>147215-54-1P</b>				
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and hydrolysis of)				
RN	147215-54-1 CAPLUS				
CN	1,3-Benzodioxole-5-carboxamide, N,4-dimethyl-2,2-diphenyl- (9CI) (CA INDEX NAME)				

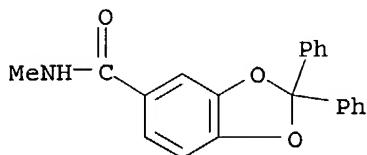


IT **147215-53-0P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and methylation of)

RN 147215-53-0 CAPLUS

CN 1,3-Benzodioxole-5-carboxamide, N-methyl-2,2-diphenyl- (9CI) (CA INDEX  
NAME)



L10 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1993:517025 CAPLUS

DN 119:117025

TI Preparation of  $\beta$ -lactams as  $\beta$ -lactamase inhibitors

IN Charnas, Robert; Gubernator, Klaus; Heinze, Ingrid; Hubschwerlen,  
Christian

PA Hoffmann-La Roche, F., A.-G., Switz.

SO Eur. Pat. Appl., 68 pp.

CODEN: EPXXDW

DT **Patent**

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 508234	A2	19921014	EP 1992-105263	19920327 <--
	EP 508234	A3	19930310		
	EP 508234	B1	19960724		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
	AT 140702	E	19960815	AT 1992-105263	19920327 <--
	ES 2090393	T3	19961016	ES 1992-105263	19920327 <--
	CA 2064945	AA	19921012	CA 1992-2064945	19920402 <--
	AU 9214066	A1	19921015	AU 1992-14066	19920406 <--
	AU 649799	B2	19940602		
	JP 05186468	A2	19930727	JP 1992-119669	19920413 <--
	US 5698577	A	19971216	US 1995-421574	19950412 <--
	US 5712268	A	19980127	US 1995-420385	19950412 <--
	US 6566355	B1	20030520	US 1995-420957	19950412
	US 5510343	A	19960423	US 1995-474207	19950607 <--
PRAI	CH 1991-1083	A	19910411		
	CH 1992-429	A	19920213		
	US 1992-862678	B2	19920403		
	US 1992-959197	B1	19921009		
	US 1993-163611	B3	19931206		

OS MARPAT 119:117025

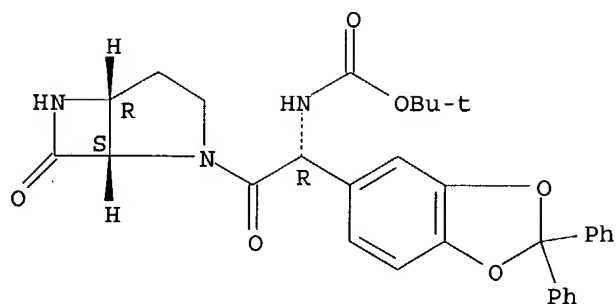
IT **145574-54-5P 145827-68-5P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as intermediate for  $\beta$ -lactamase inhibitors)

RN 145574-54-5 CAPLUS

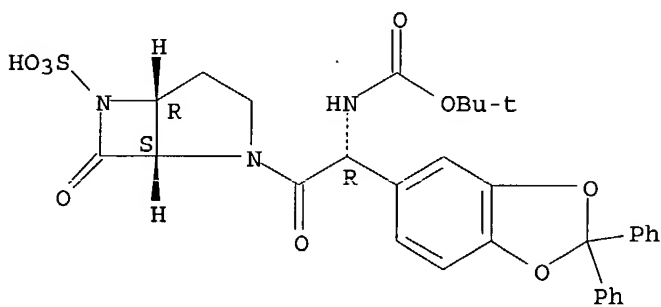
CN Carbamic acid, [1-(2,2-diphenyl-1,3-benzodioxol-5-yl)-2-oxo-2-(7-oxo-2,6-diazabicyclo[3.2.0]hept-2-yl)ethyl]-, 1,1-dimethylethyl ester,  
[1S-[1 $\alpha$ ,2(S\*),5 $\alpha$ ]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 145827-68-5 CAPLUS  
 CN 2,6-Diazabicyclo[3.2.0]heptane-6-sulfonic acid, 2-[[[(1,1-dimethylethoxy)carbonyl]amino] (2,2-diphenyl-1,3-benzodioxol-5-yl)acetyl]-7-oxo-, monosodium salt, [1S-[1 $\alpha$ ,2(S\*),5 $\alpha$ ]]- (9CI) (CA INDEX NAME)

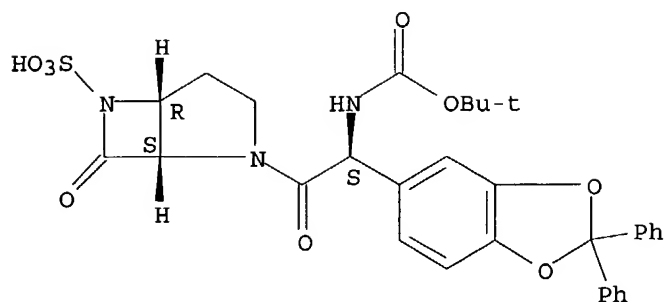
Absolute stereochemistry.



● Na

IT 145920-35-0P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation of, as  $\beta$ -lactamase inhibitor)  
 RN 145920-35-0 CAPLUS  
 CN 2,6-Diazabicyclo[3.2.0]heptane-6-sulfonic acid, 2-[[[(1,1-dimethylethoxy)carbonyl]amino] (2,2-diphenyl-1,3-benzodioxol-5-yl)acetyl]-7-oxo-, monosodium salt, [1S-[1 $\alpha$ ,2(R\*),5 $\alpha$ ]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



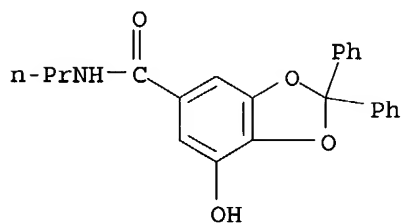
● Na

L10 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1992:426095 CAPLUS  
 DN 117:26095  
 TI Preparation of 5-hydroxy-3,4-methylenedioxybenzoic acid derivatives  
 IN Takahashi, Mitsuo; Motoki, Masushi  
 PA Fuji Shashin Film K. K., Japan  
 SO Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF

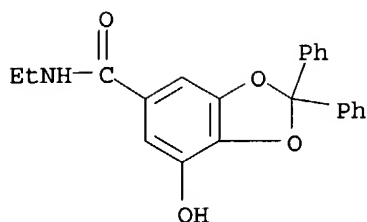
DT **Patent**  
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04046175	A2	19920217	JP 1990-153857	19900614 <--
PRAI	JP 1990-153857		19900614		
OS	CASREACT 117:26095; MARPAT 117:26095				
IT	<b>115685-07-9P 141946-33-0P</b>				
	RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)				
RN	115685-07-9 CAPLUS				
CN	1,3-Benzodioxole-5-carboxamide, 7-hydroxy-2,2-diphenyl-N-propyl- (9CI) (CA INDEX NAME)				

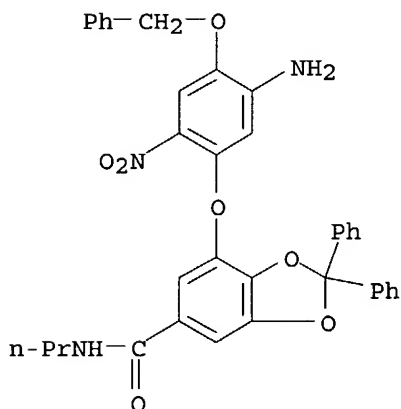


RN 141946-33-0 CAPLUS  
 CN 1,3-Benzodioxole-5-carboxamide, N-ethyl-7-hydroxy-2,2-diphenyl- (9CI) (CA INDEX NAME)

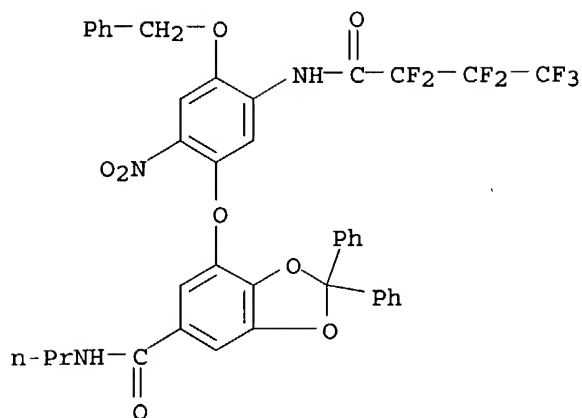


L10 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1991:634707 CAPLUS  
 DN 115:234707  
 TI Preparation of 4-aryloxy-1,3-benzodioxoles as intermediates for  
 photographic materials  
 IN Okawa, Atsuhiko  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1  

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03130280	A2	19910604	JP 1989-268254	19891017 <--
PRAI	JP 1989-268254		19891017		
OS	MARPAT 115:234707				
IT	133429-68-2				
RL:	RCT (Reactant); RACT (Reactant or reagent) (acylation of, with carboxylic acid halides)				
RN	133429-68-2 CAPLUS				
CN	1,3-Benzodioxole-5-carboxamide, 7-[5-amino-2-nitro-4-(phenylmethoxy)phenoxy]-2,2-diphenyl-N-propyl- (9CI) (CA INDEX NAME)				



IT 133410-78-3P  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (preparation of, as intermediate for cyan coupler)  
 RN 133410-78-3 CAPLUS  
 CN 1,3-Benzodioxole-5-carboxamide, 7-[5-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-2-nitro-4-(phenylmethoxy)phenoxy]-2,2-diphenyl-N-propyl- (9CI) (CA INDEX NAME)



L10 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1991:460720 CAPLUS

DN 115:60720

TI High-contrast high-sensitivity rapidly processable photographic material

IN Hirano, Shigeo; Ichijima, Yasushi; Deguchi, Hisayasu

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 64 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

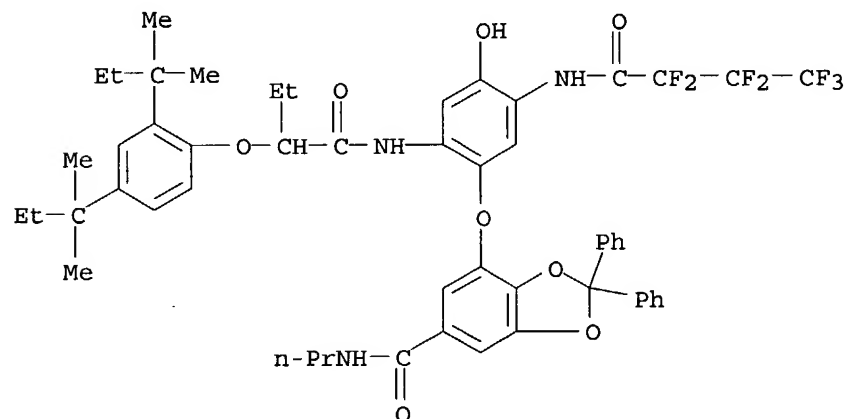
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02213838	A2	19900824	JP 1989-35871	19890215 <--
PRAI	JP 1989-35871		19890215		
IT	115791-84-9P				

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, photog. additive from)

RN 115791-84-9 CAPLUS

CN 1,3-Benzodioxole-5-carboxamide, 7-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-5-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-4-hydroxyphenoxy]-2,2-diphenyl-N-propyl- (9CI) (CA INDEX NAME)



L10 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1991:187572 CAPLUS



DN 114:187572  
 TI 4-[5-(Substituted-carbonylamino)phenoxy]-1,3-benzodioxoles as cyan coupler intermediates and their preparation  
 IN Okawa, Atsuhiko; Kamio, Takayoshi  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF

DT **Patent**  
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02255674	A2	19901016	JP 1989-74586	19890327 <--
PRAI	JP 1989-74586		19890327		

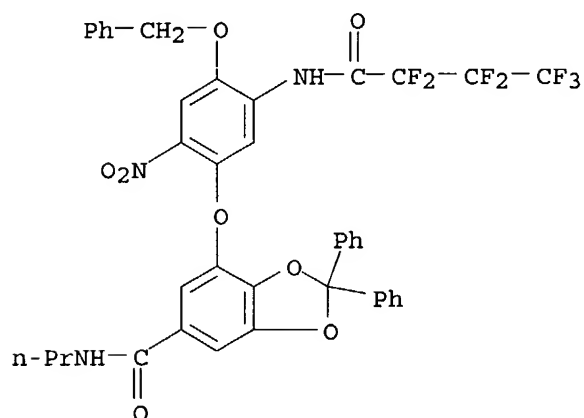
OS MARPAT 114:187572

IT **133410-78-3P**

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and deacetalization or hydrogenation of)

RN 133410-78-3 CAPLUS

CN 1,3-Benzodioxole-5-carboxamide, 7-[5-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-2-nitro-4-(phenylmethoxy)phenoxy]-2,2-diphenyl-N-propyl- (9CI) (CA INDEX NAME)

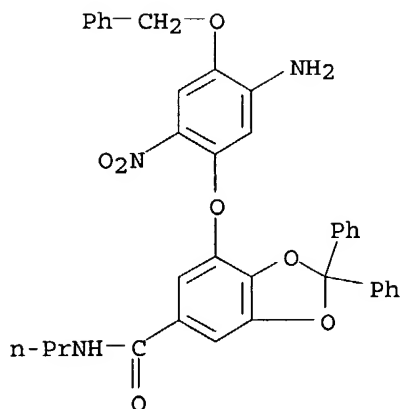


IT **133429-68-2**

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with carbonyl compds.)

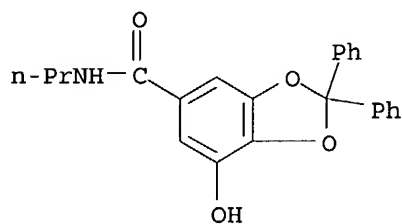
RN 133429-68-2 CAPLUS

CN 1,3-Benzodioxole-5-carboxamide, 7-[5-amino-2-nitro-4-(phenylmethoxy)phenoxy]-2,2-diphenyl-N-propyl- (9CI) (CA INDEX NAME)

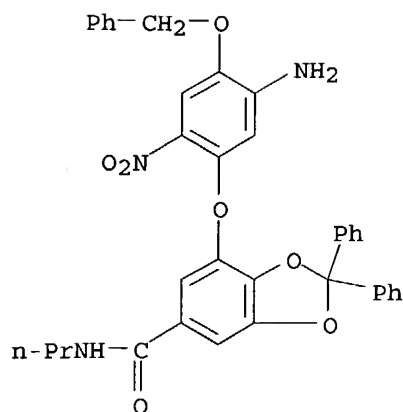


L10 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1991:187571 CAPLUS  
 DN 114:187571  
 TI 4-Phenoxy-1,3-benzodioxole derivatives as cyan coupler intermediate and their preparation  
 IN Okawa, Atsuhiko; Kamio, Takayoshi; Saito, Naoki  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DT **Patent**  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02255673	A2	19901016	JP 1989-74585	19890327 <--
PRAI	JP 1989-74585		19890327		
OS	MARPAT 114:187571				
IT	115685-07-9				
	RL: RCT (Reactant); RACT (Reactant or reagent) (etherification of, with aminobenzyloxynitrophenyl chloride)				
RN	115685-07-9 CAPLUS				
CN	1,3-Benzodioxole-5-carboxamide, 7-hydroxy-2,2-diphenyl-N-propyl- (9CI) (CA INDEX NAME)				



IT **133429-68-2P**  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and acylation of, with heptafluorobutanoic anhydride)  
 RN 133429-68-2 CAPLUS  
 CN 1,3-Benzodioxole-5-carboxamide, 7-[5-amino-2-nitro-4-(phenylmethoxy)phenoxy]-2,2-diphenyl-N-propyl- (9CI) (CA INDEX NAME)



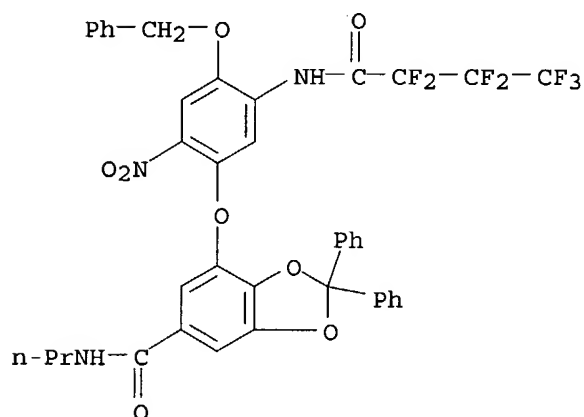
IT 133410-78-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and hydrogenation of, (aminohydroxyphenoxy)catechol derivative from)

RN 133410-78-3 CAPLUS

CN 1,3-Benzodioxole-5-carboxamide, 7-[5-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-2-nitro-4-(phenylmethoxy)phenoxy]-2,2-diphenyl-N-propyl-(9CI) (CA INDEX NAME)



L10 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1991:184981 CAPLUS

DN 114:184981

TI Preparation of 3-(aminohydroxyphenoxy)catechols as intermediates for photographic agents

IN Kamio, Takayoshi; Okawa, Atsuhiko; Saito, Naoki

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

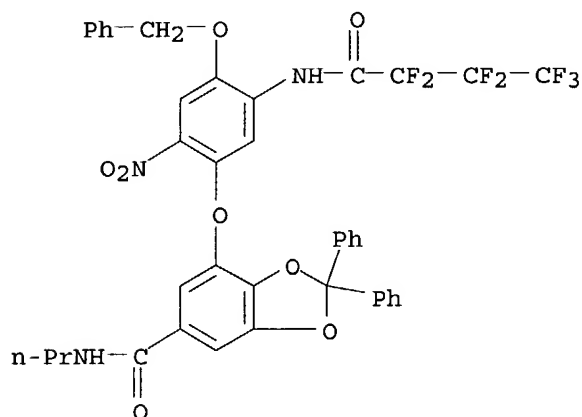
DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02282354	A2	19901119	JP 1989-100237	19890421 <--
	JP 2537682	B2	19960925		
PRAI	JP 1989-100237		19890421		
OS	MARPAT 114:184981				

IT 133410-78-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reduction of, (aminohydroxyphenoxy)catechol from)  
 RN 133410-78-3 CAPLUS  
 CN 1,3-Benzodioxole-5-carboxamide, 7-[5-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-2-nitro-4-(phenylmethoxy)phenoxy]-2,2-diphenyl-N-propyl- (9CI) (CA INDEX NAME)



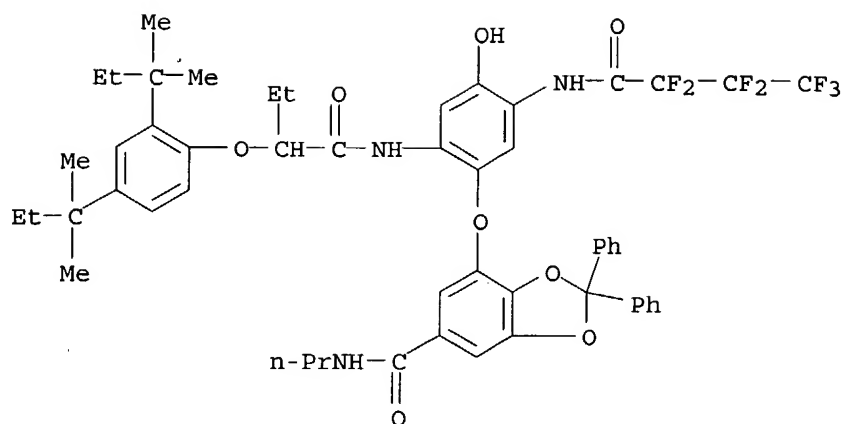
L10 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1989:467788 CAPLUS  
 DN 111:67788  
 TI Silver halide photographic material containing bleaching promoter-releasing coupler and processing method therefor  
 IN Sakagami, Megumi; Ichijima, Yasushi  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 55 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63214752	A2	19880907	JP 1987-49081	19870304 <--
	JP 06075172	B4	19940921		
PRAI	JP 1987-49081		19870304		

IT 115791-84-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction of, bleaching-promoter-releasing photog. coupler from)  
 RN 115791-84-9 CAPLUS  
 CN 1,3-Benzodioxole-5-carboxamide, 7-[2-[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-5-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-4-hydroxyphenoxy]-2,2-diphenyl-N-propyl- (9CI) (CA INDEX NAME)



L10 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:610686 CAPLUS

DN 109:210686

TI Preparation of phenoxy catechols as intermediates for photographic compounds

IN Yamada, Kozaburo; Shimada, Yasuhiro; Ichijima, Yasushi

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

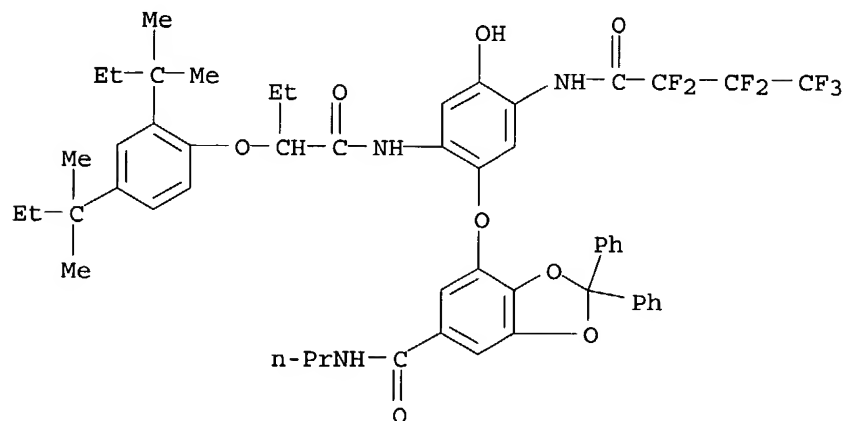
CODEN: JKXXAF

DT Patent

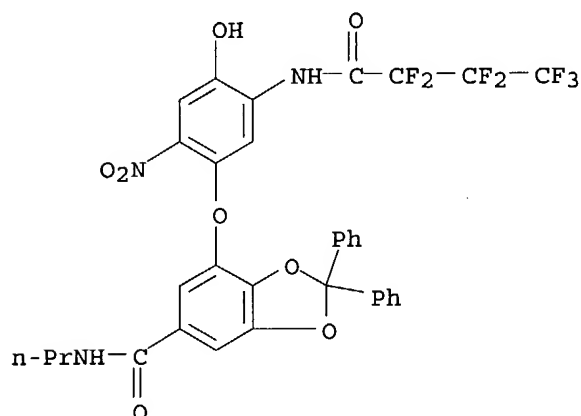
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63017850	A2	19880125	JP 1986-163409	19860711 <--
	JP 05023255	B4	19930402		
PRAI	JP 1986-163409		19860711		
OS	CASREACT 109:210686; MARPAT 109:210686				
IT	115791-84-9P 117330-62-8P				
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and deprotection of)				
RN	115791-84-9 CAPLUS				
CN	1,3-Benzodioxole-5-carboxamide, 7-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-5-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-4-hydroxyphenoxy]-2,2-diphenyl-N-propyl- (9CI) (CA INDEX NAME)				



RN 117330-62-8 CAPLUS  
 CN 1,3-Benzodioxole-5-carboxamide, 7-[5-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-4-hydroxy-2-nitrophenoxy]-2,2-diphenyl-N-propyl- (9CI)  
 (CA INDEX NAME)



L10 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:538987 CAPLUS

DN 109:138987

TI Silver halide color photographic materials

IN Obayashi, Keiji; Tashiro, Mamoru; Yamada, Kozaburo

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63024237	A2	19880201	JP 1986-168938	19860717 <--
	JP 05071937	B4	19931008		
	US 5118597	A	19920602	US 1990-609034	19901107 <--
PRAI	JP 1986-168938		19860717		
	US 1987-75010		19870717		

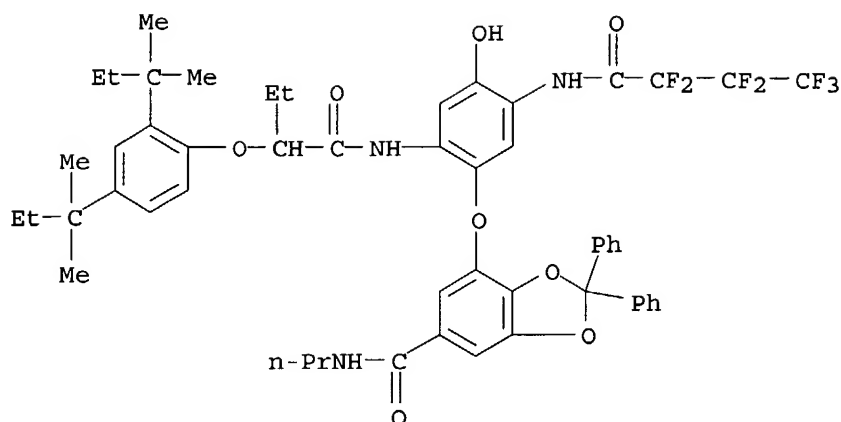
IT 115791-84-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)

(preparation and reaction of, photog. development inhibitor-releasing  
 compound from)

RN 115791-84-9 CAPLUS

CN 1,3-Benzodioxole-5-carboxamide, 7-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-5-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-4-hydroxyphenoxy]-2,2-diphenyl-N-propyl- (9CI) (CA INDEX NAME)



L10 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:538985 CAPLUS

DN 109:138985

TI Silver halide color photographic photosensitive materials containing phenolic or naphtholic cyan couplers and development inhibitor precursor releasing compound

IN Ichijima, Yasushi; Obayashi, Keiji; Shimada, Yasuhiro; Kobayashi, Hidetoshi; Yamakawa, Kazuyoshi; Yamada, Kozaburo

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 53 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

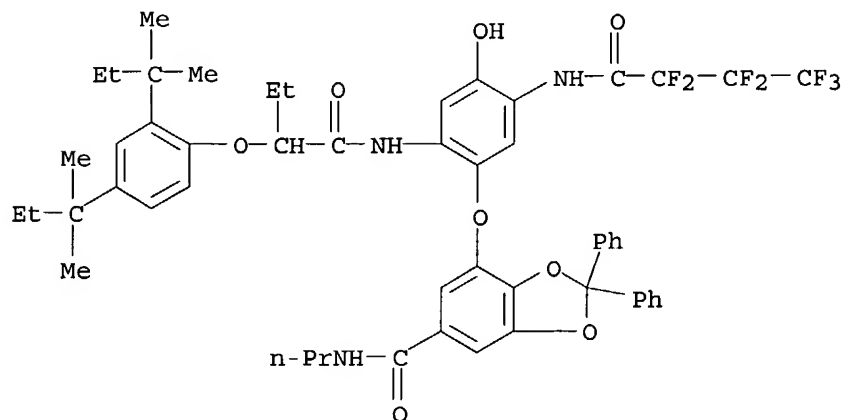
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63023152	A2	19880130	JP 1986-139715	19860616 <--
PRAI	JP 1986-139715		19860616		
IT	115791-84-9P				

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, in preparation of photog. development inhibitor precursor-releasing coupler)

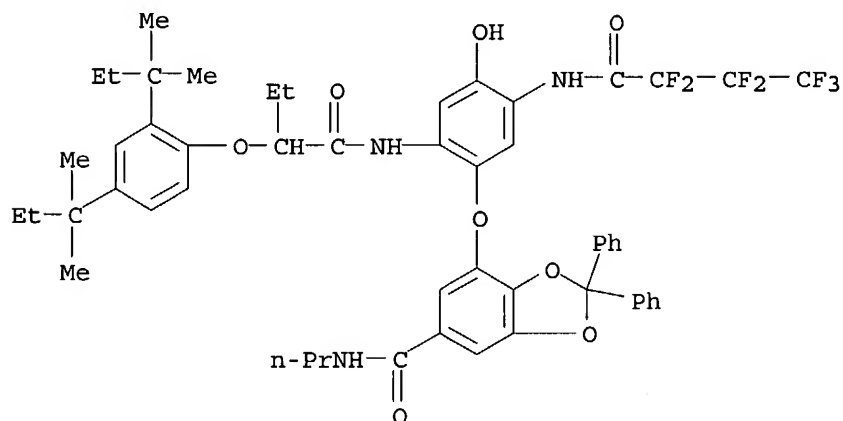
RN 115791-84-9 CAPLUS

CN 1,3-Benzodioxole-5-carboxamide, 7-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-5-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-4-hydroxyphenoxy]-2,2-diphenyl-N-propyl- (9CI) (CA INDEX NAME)



L10 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1988:538984 CAPLUS  
 DN 109:138984  
 TI Silver halide color photographic material containing tabular silver halide emulsion and development inhibitor releaser  
 IN Obayashi, Keiji; Tashiro, Mamoru; Shimada, Yasuhiro  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 57 pp.  
 CODEN: JKXXAF  
 DT **Patent**  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63019654	A2	19880127	JP 1986-164899	19860714 <--
	JP 07015564	B4	19950222		
PRAI	JP 1986-164899		19860714		
IT	<b>115791-84-9P</b>				
RL:	RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, development inhibitor releaser from)				
RN	115791-84-9	CAPLUS			
CN	1,3-Benzodioxole-5-carboxamide, 7-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-5-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-4-hydroxyphenoxy]-2,2-diphenyl-N-propyl- (9CI) (CA INDEX NAME)				



L10 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1988:483239 CAPLUS  
 DN 109:83239  
 TI Cyan coupler and development inhibitor-precursor compound-containing color photographic film  
 IN Ichijima, Yasushi; Obayashi, Keiji; Yamada, Kozaburo; Shimada, Yasuhiro  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 49 pp.  
 CODEN: JKXXAF  
 DT **Patent**  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63006550	A2	19880112	JP 1986-150201	19860626 <--
PRAI	JP 1986-150201		19860626		
IT	<b>115791-84-9P</b>				

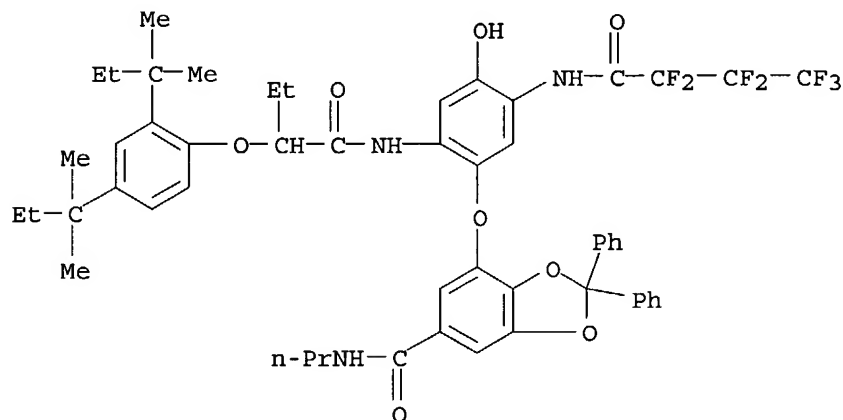


RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, photog. development inhibitor releasing coupler from)

RN 115791-84-9 CAPLUS

CN 1,3-Benzodioxole-5-carboxamide, 7-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-5-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-4-hydroxyphenoxy]-2,2-diphenyl-N-propyl- (9CI) (CA INDEX NAME)



L10 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:483214 CAPLUS

DN 109:83214

TI Silver halide color photographic material containing development inhibitor-releasing coupler

IN Ichijima, Yasushi; Yamada, Kozaburo; Shimada, Yasuhiro

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 36 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62287249	A2	19871214	JP 1986-131584	19860606 <--
	JP 07007190	B4	19950130		
PRAI	JP 1986-131584		19860606		

IT 115685-08-0P 115685-09-1P 115685-10-4P

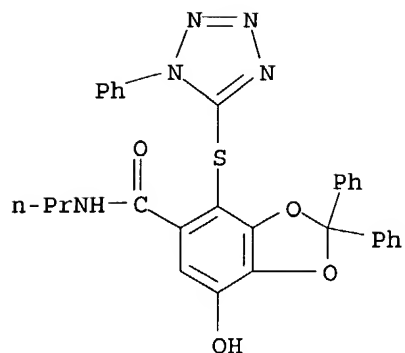
115685-15-9P 115685-16-0P 115685-17-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

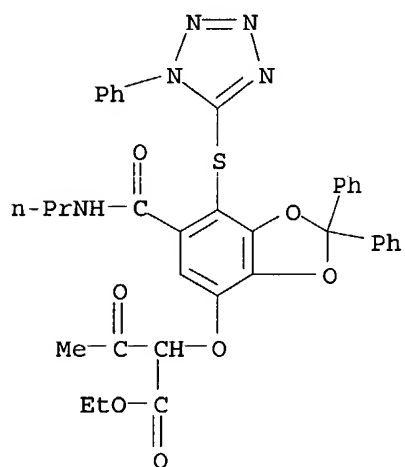
(preparation and reaction of, photog. development inhibitor-releasing coupler from)

RN 115685-08-0 CAPLUS

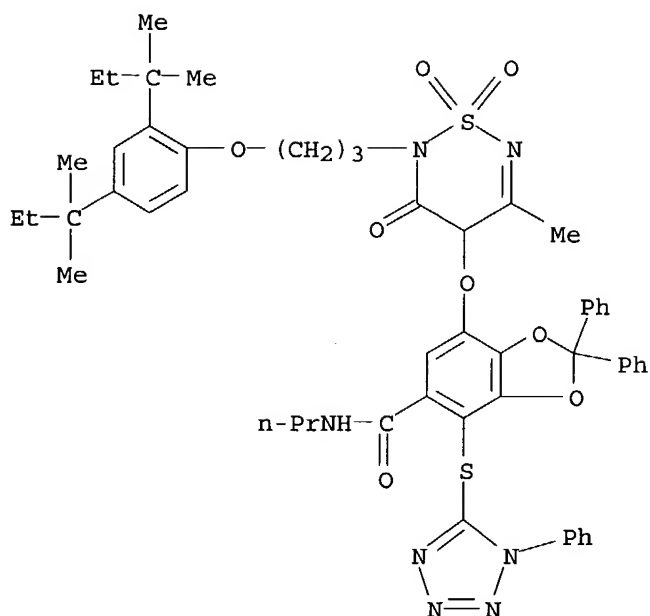
CN 1,3-Benzodioxole-5-carboxamide, 7-hydroxy-2,2-diphenyl-4-[(1-phenyl-1H-tetrazol-5-yl)thio]-N-propyl- (9CI) (CA INDEX NAME)



RN 115685-09-1 CAPLUS  
 CN Butanoic acid, 2-[[2,2-diphenyl-7-[(1-phenyl-1H-tetrazol-5-yl)thio]-6-[(propylamino)carbonyl]-1,3-benzodioxol-4-yl]oxy]-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)

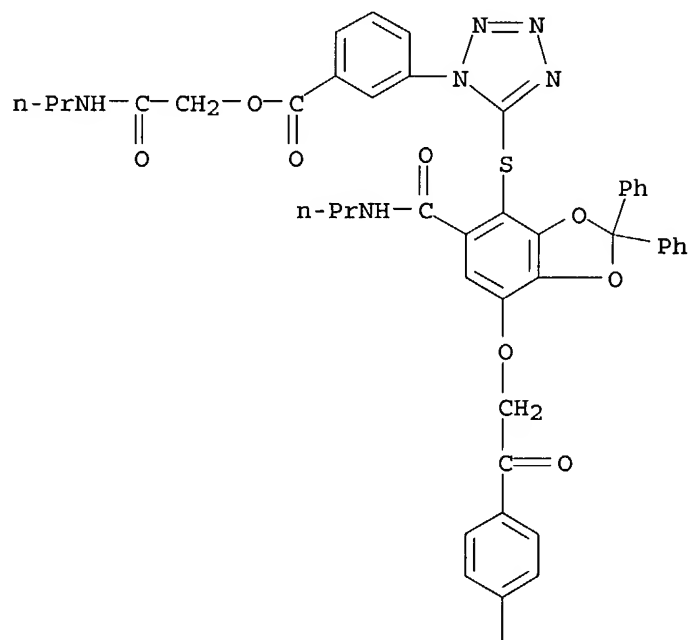


RN 115685-10-4 CAPLUS  
 CN 1,3-Benzodioxole-5-carboxamide, 7-[[2-[3-[2,4-bis(1,1-dimethylpropyl)phenoxy]propyl]-3,4-dihydro-5-methyl-1,1-dioxido-3-oxo-2H-1,2,6-thiadiazin-4-yl]oxy]-2,2-diphenyl-4-[(1-phenyl-1H-tetrazol-5-yl)thio]-N-propyl- (9CI) (CA INDEX NAME)

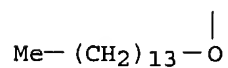


RN 115685-15-9 CAPLUS  
 CN Benzoic acid, 3-[5-[[2,2-diphenyl-5-[(propylamino) carbonyl]-7-[2-oxo-2-[4-(tetradecyloxy)phenyl]ethoxy]-1,3-benzodioxol-4-yl]thio]-1H-tetrazol-1-yl]-, 2-oxo-2-(propylamino)ethyl ester (9CI) (CA INDEX NAME)

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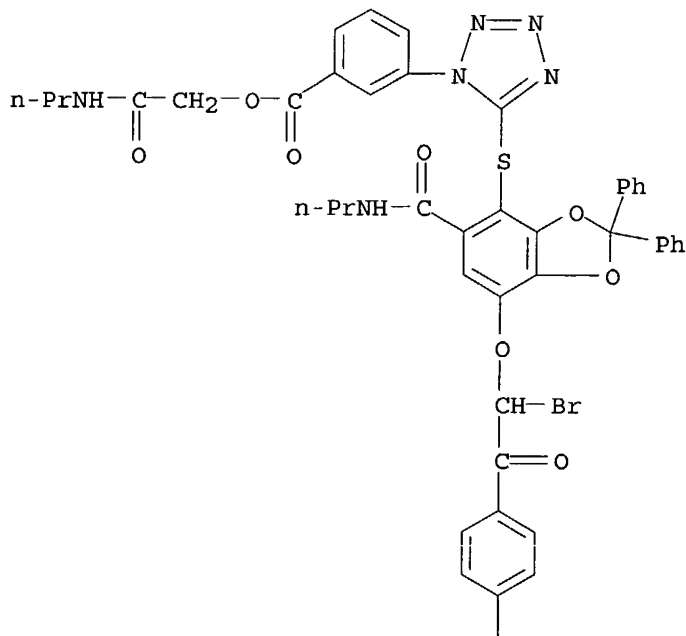


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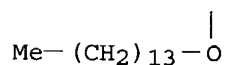


RN 115685-16-0 CAPLUS  
 CN Benzoic acid, 3-[5-[[7-[1-bromo-2-oxo-2-[4-(tetradecyloxy)phenyl]ethoxy]-2,2-diphenyl-5-[(propylamino)carbonyl]-1,3-benzodioxol-4-yl]thio]-1H-tetrazol-1-yl]-, 2-oxo-2-(propylamino)ethyl ester (9CI) (CA INDEX NAME)

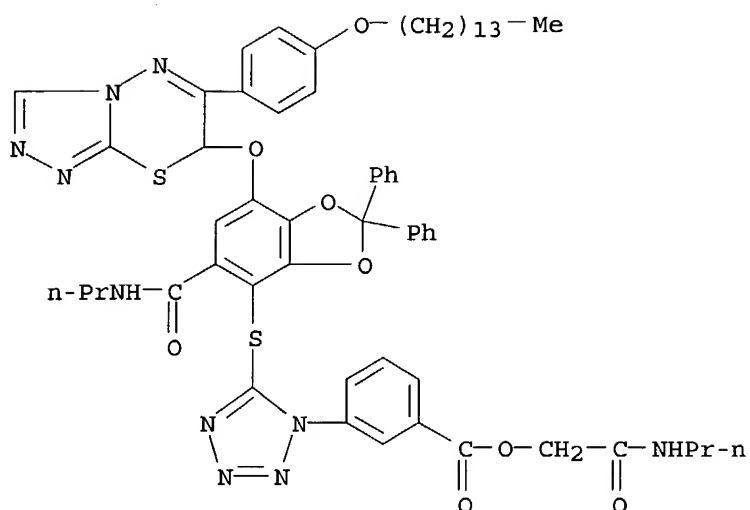
PAGE 1-A



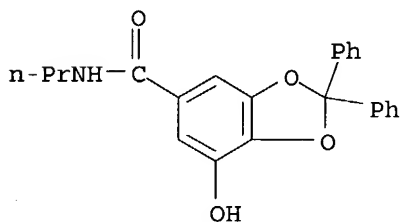
PAGE 2-A



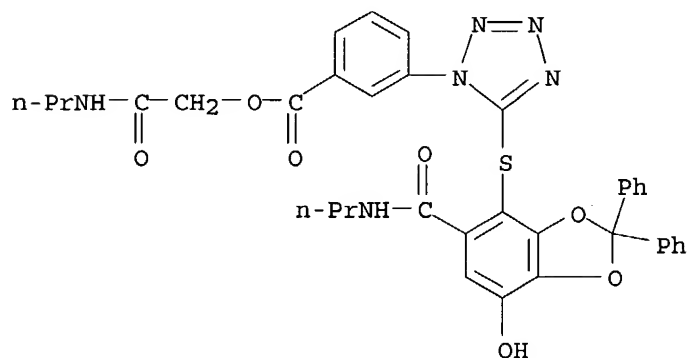
RN 115685-17-1 CAPLUS  
 CN Benzoic acid, 3-[5-[[2,2-diphenyl-5-[(propylamino)carbonyl]-7-[[6-[4-(tetradecyloxy)phenyl]-7H-1,2,4-triazolo[3,4-b][1,3,4]thiadiazin-7-yl]oxy]-1,3-benzodioxol-4-yl]thio]-1H-tetrazol-1-yl]-, 2-oxo-2-(propylamino)ethyl ester (9CI) (CA INDEX NAME)



IT 115685-07-9 115685-14-8  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, photog. development inhibitor-releasing coupler from)  
 RN 115685-07-9 CAPLUS  
 CN 1,3-Benzodioxole-5-carboxamide, 7-hydroxy-2,2-diphenyl-N-propyl- (9CI)  
 (CA INDEX NAME)



RN 115685-14-8 CAPLUS  
 CN Benzoic acid, 3-[5-[[7-hydroxy-2,2-diphenyl-5-[(propylamino)carbonyl]-1,3-benzodioxol-4-yl]thio]-1H-tetrazol-1-yl]-, 2-oxo-2-(propylamino)ethyl ester (9CI) (CA INDEX NAME)



L10 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1981:497798 CAPLUS  
 DN 95:97798  
 TI Benzimidazole derivatives as antihypertensives

PA Kyowa Hakko Kogyo Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 13 pp.  
CODEN: JKXXAF

DT **Patent**

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 56039086	A2	19810414	JP 1979-113514	19790906 <--
PRAI	JP 1979-113514		19790906		
IT	<b>78734-44-8P</b>				
	RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)				
RN	78734-44-8	CAPLUS			
CN	1,3-Benzodioxole-5-acetic acid, $\alpha$ -[(chloroacetyl)amino]- $\alpha$ - methyl-2,2-diphenyl-, methyl ester, (S)- (9CI) (CA INDEX NAME)				

Absolute stereochemistry.

